

Operation Manual

ARTICEL

- 50948 SunSun HW-702A
- 50949 SunSun HW-702B
- 50950 SunSun HW-703A
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- 50952 SunSun HW-704A
- 50953 SunSun HW-704B



Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities please contact us.

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Although Wiltec Wildanger Technik GmbH has made every effort to make sure that this user manual is complete, accurate and updated, errors cannot always be avoided. In the event of problems with this user manual please complete and send this form back to us.

FAX-notification (+++49 2403 55592-15),

from: _____

Name: _____

Firm: _____

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I would like to report the following mistakes:

Customer Service Wiltec Wildanger Technik GmbH

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Introduction

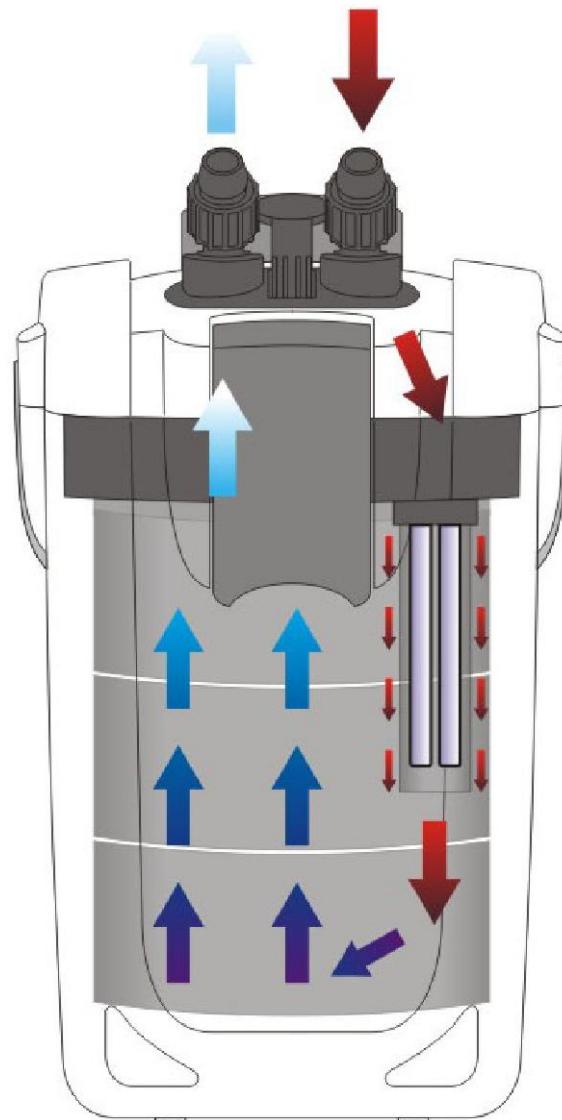
Thank you for purchasing this quality product. **To minimize the risk of injury by means of fire or electric shock we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Always use a grounded power connection with the appropriate mains voltage. You can find the corresponding mains voltage on the type plate. If you have any doubts about the connection being grounded, have it checked by a qualified professional. Never use a faulty electric cable.

Do not inspect the electrical part of the pressure pond filter in a wet or damp environment or when you are wet yourself and protect it from direct sunlight. Install this device in a safe location so that nobody can step on the cable, fall over or damage it. Disconnect the power plug before cleaning it and use only a damp cloth for cleaning. Avoid using cleaning agents and make sure that no liquid enters the electrical part of the pump.

The electric part of the device contains no parts that can be inspected or serviced by the user. Leave the maintenance, adjustment and repair to qualified technical personnel. In case of unauthorised intervention the 2-year warranty is no longer valid! Keep these operation instructions safe.

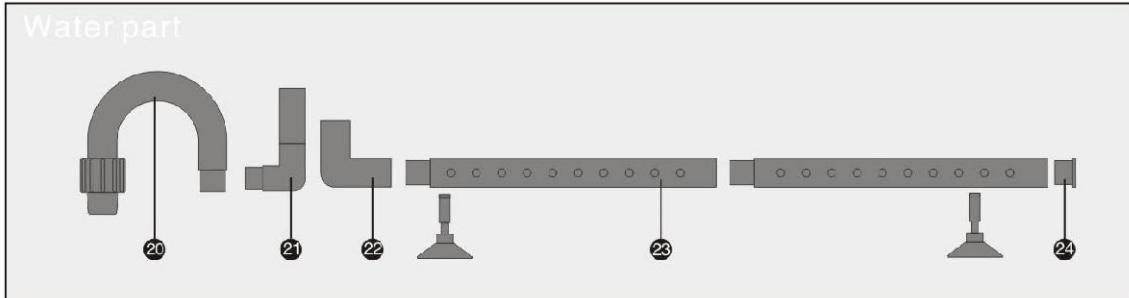
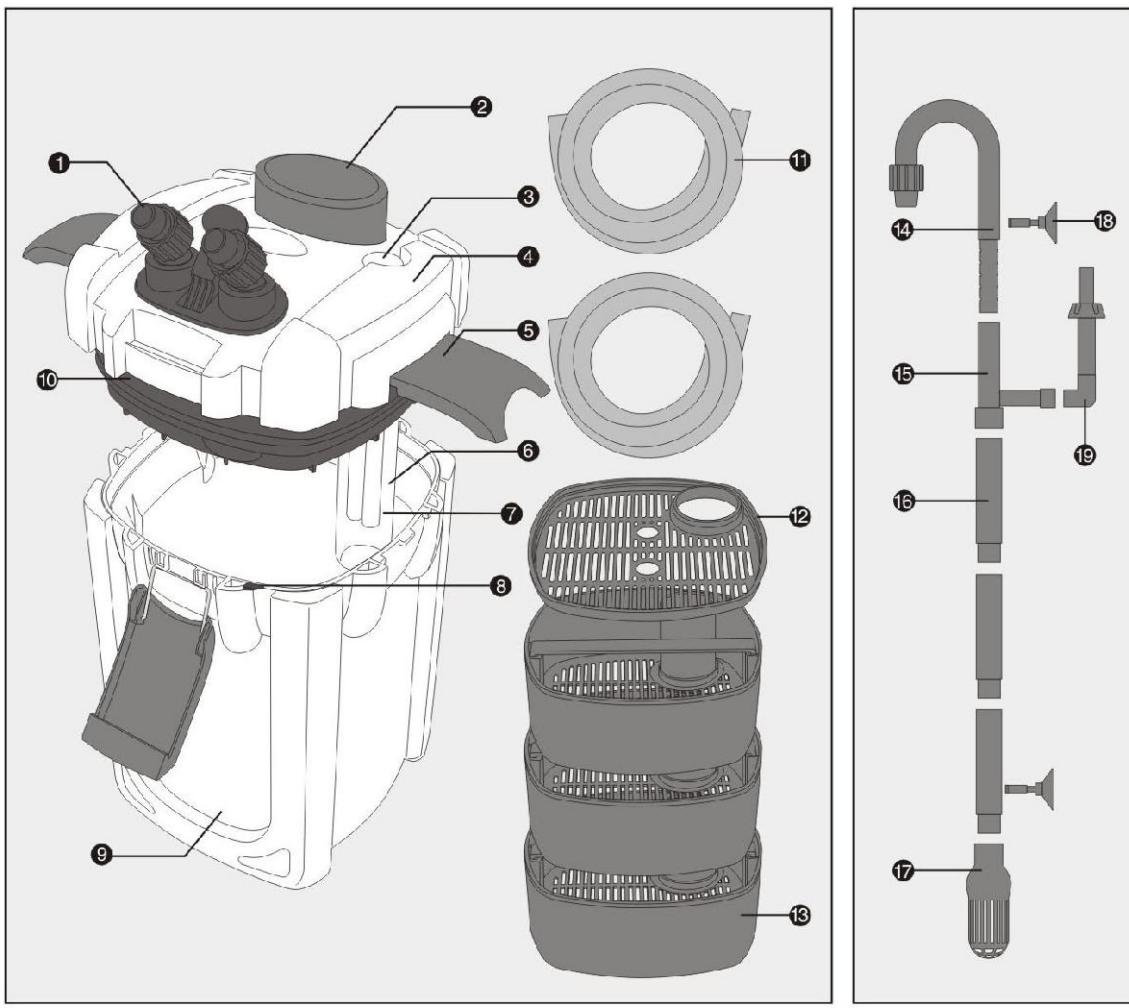
The particular strength of the aquarium external filter is that there is little space wasted inside the aquarium. An aquarium external filter can be easily placed under or next to the pool. For an optimal positioning the hose connections on top of the lid are rotatable at 360°. The large container volume ensures a cleaning with very large filter volume. There is enough space for various filter media.



The **SunSun Aquarium External Filter HW-Series** can be easily connected to aquariums with a big water volume. So the operation of large-sized aquariums becomes an simple exercise. The aquarium external filter series provides for a high flow rate, however it operates quietly. The rubber stands provide for a optimal vibration reduction.

The super quiet aquarium filter technique of the SunSun HW-Series aquarium external filter is suitable not only for freshwater aquariums but also saltwater aquariums.

PART LIST



1	inlet & outlet connection	7	UVC lamp	17	input cover
1-1	inlet & outlet connection O-ring	8	decoration strip	18	sucker
2	primer button	9	main body	19	dirtiness entrance connection
3	switch	9-1	main body O-ring	20	output curvy bar
4	cover	10	ballast part	21	bend connection-1
4-1	Impeller cover	11	pipe	22	bend connection-2
4-2	Impeller set	12	draining skep cover	23	spray bar
5-A	Buckle on the cover	13	draining skep	24	spray bar cover
5-B	Buckle on the main body	14	input curvy bar		
6	quartz glass tube	15	joint of dirtiness entrance		
6-1	Quartz glass O-ring	16	input bar		

PS: PART 6, PART 6-1 AND PART 7 ONLY FOR HW-702B HW-703B HW-704B

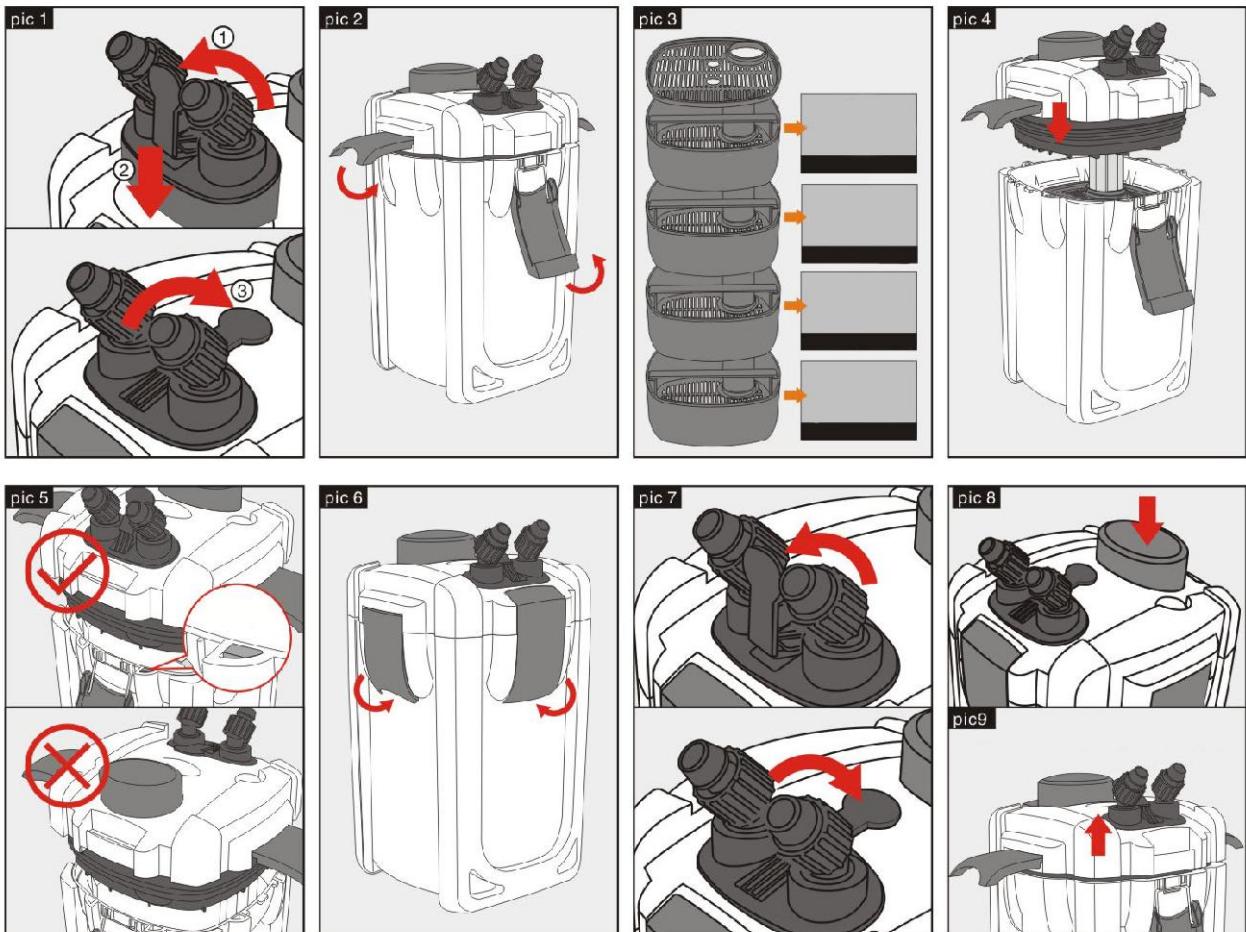
PS: PART13 QTY IS 3PCS FOR HW-702A HW-703A HW-702B HW-703B

PART 13 QTY IS 4PCS FOR HW-704A HW-704B

SPECIFICATION

Item	HW-702A	HW-702B	HW-703A	HW-703B	HW-704A	HW-704B
Voltage	220-240V/50HZ					
Power(W)	15W	15W	30W	30W	45W	45W
Output(L/h)	1000L/h	1000L/h	1400L/h	1400L/h	2000L/h	2000L/h
UVC power(W)	/	9W	/	9W	/	9W

INSTRUCTION



1. take out the inlet & outlet connection from the accessories box, as shown in pic 1, pull up the small handle to place ②, then push the inlet&outlet connection to the cover ③, fasten using the small handle
2. As shown in pic 2, to set your filter up, the four buckles should be un-clamped from the main body, then separate the cover from the main body of the filter.
3. Add the filter material as you like, the pic 3 is for your reference.
4. Insert the UVC lamp and quartz glass tube to the correct place. As shown in the pic 4, then fasten the filter cover to the main body. (This instruction Only for HW-702B 703B 704B)
5. This product including automatic power-off protection system for UVC lamp. When the cover was taken off from the main body, the UVC lamp will turned off automatically. So please take care of the place of switch as shown in Pic 5. (This instruction Only for HW-702B 703B 704B) Otherwise the UVC lamp will not work.
6. Repeat step, refasten the filter cover to the main body.
7. The small handle between the inlet&outlet connection is the shut off valve.
8. As shown in Pic 8, press down the primer button on top of the filter cover, so the filter will start to absorb water through the pipe, repeat this if necessary until all pipe is full of water.
9. The UVC lamp must be replaced after 8000 hours of operation. Please cut off power when you need to replace the UVC lamp. (Only for HW-702B 703B 704B)

FILTER MATERIAL FOR PIC 3



Ceramic Ring



Filter Sponge



Biochemical Cotton



Bio-Ball

The delivered filter material is considered a standard equipment for your aquarium external filter.

Basically, it applies from bottom to the top:

- 1.stage: mechanical / biological filtration in part
- 2.stage: biological filtration
- 3.stage: chemical filtration (activated carbon, turf, phosphate Ex etc.)

As for 4-stages filters, you can extend by a mechanical or biological filter stage, depending on the filtering requirements.

Ceramic Rings

Ceramic glass rings for the internal and external aquarium filters. The filter media, with mechanical filtration, are used for removing suspended particles. The ceramic rings cause a water turbulence in the filter basket due to their special form and large surface. By this way floating particles can accumulate during the descent and coarse dirt particles are removed from the water cycle.

This filter material creates optimal conditions for filter bacteria which reduce nitrite peaks better than other filter materials.

Filter Floss - Filter Fleece

Filter media like fleece, floss or sponges are essential in modern aquaristics.

Coarse dirt particles are absorbed by means of filter floss, sponges reduce the nitrate, clean the water of chemical impurities and provide ideal conditions for the settlement of filter bacteria.

Bio Balls

Bio balls are used in aquaristics as mechanical and biological filter mediat. These balls offer bacteria a large area for their accumulation and are considered to be high performance filter media for powerful filter systems. In contrast to other filter media, bio balls have a virtually unlimited life-span which makes them a popular and cheap filter medium for pond filter systems, trickle filters and chamber filters.

Activated Carbon - optional

Activated carbon is used in aquaristics to filtrate urinary and humic substances, pesticides, toxins and similar residues and to provide for clean aquarium water. Additionally the ozone and the chlorine content of the water is reduced through the use of the activated carbon.

The activated carbon is particularly suitable for the pre-treatment of tap water, for water clouded with suspended particles and for filtering out residues after a medication treatment..

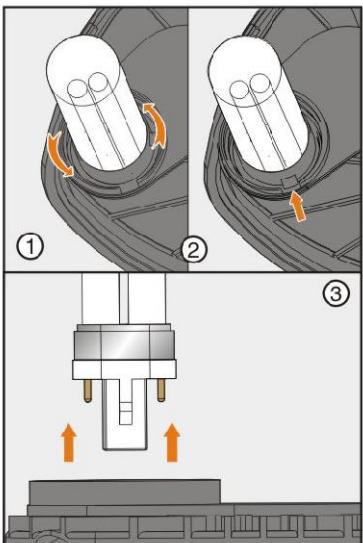
During a medication and algae treatment one should not use the activated carbon. However, after said water treatment the activated carbon is indispensable for removing remnants.

We do not recommend to leave the activated carbon in the filter tray over a long period. After the media filter (activated carbon) reaches its absorption capacity, there is the possibility that absorbed harmful substances are washed out and end up in the aquarium water.

When purchasing a new aquarium filter or after a complete cleaning, the beneficial bacteria must be enriched again.

There are special bacteria cultures that can be added to the aquarium filter, thus facilitating the start.to 4 stages by adding a me-chemical or biological filter stage

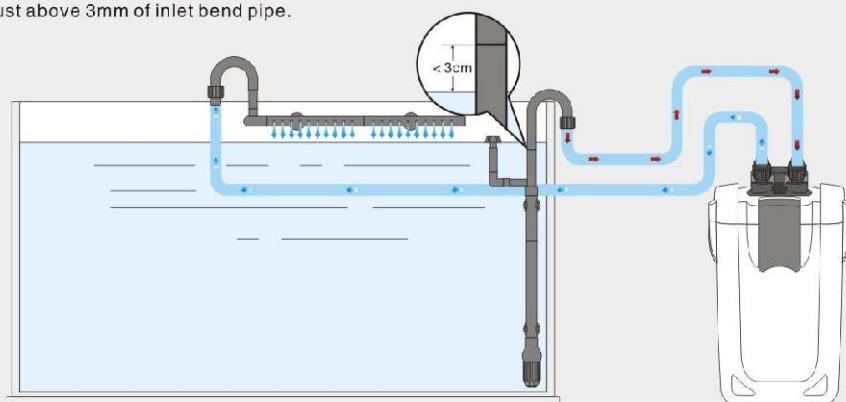
REPLACE UVC LAMP



5. Open the filter cover according to Pic 2 (see above), place the cover upside down. Then hold the quartz glass tube and rotate gently (pic ②) till the slot position (Pic ③).
6. take out the UVC lamp and change a new one(Pic ④)
7. Put backl the quartz glass tube accordingly

PLACE OF LOCATION

PS:water must above 3mm of inlet bend pipe.



Placed in parallel in the fish tank

Filter operation and problem solving

Noise reduction/ external air

Especially the suction intake /inlet and the connected suction surface must be checked for tightness and adjusted according to the water level of the aquarium. In case this is not possible due to aquarium technical reasons, seal the whole suction surface so that no external air can get into the filter.

De-aerating/ evacuating air

Take the return-flow hose that conducts the water from the filter to the tank and lead it into a clean bucket that is placed below the filter. Lead the hose into the bucket and carry out the deeration process (evacuate the air) by activating the manual pump. Please make sure that the possible maximal flow is adjusted to the inlet-outlet connector. As soon as no air bubbles can be seen, seal the hose with a finger und and install it again as intended on the return pipe at the top edge of the aquarium.

Leakage after installation or cleaning

In case of a slight leakage still persists after the installation or the cleaning of the filter, this indicates that the problem is most likely the sealing between the hose connector adaptor and the filter head (cover lid).

The plug-in adaptor, to which the hoses are connected, has on the lower side two O-rings that must seal the connection inside the filter lid. If these O-Rings are dirty, displaced (out of place) or damaged they cannot seal properly anymore and water escapes in the filter lid/cover of the aquarium filter. The leak point is then the lowest point of the filter cover/lid and appears typically at the lateral clamping points that connect the cover lid with the filter tank/canister.

The remedy is here as simple as the failure itself. You have to rinse and check the O-rings. Make sure that the spots where the O-rings have to be inserted and positioned are free of dirt. On these particular spots algae formation can appear and impair or damage the O-rings' sealing if no regularly cleaning is carried out. This problem can also appear in case of a new installing because of sand, for instance.

Please allocate sufficient time for rinsing and cleaning; if this is not done carefully and thoroughly, it can happen that the aquarium canister filter still leaks after the O-ring sealings have been cleaned.

If, despite a thorough cleaning the water leakage at the above-mentioned spots still persists, you must check the O-ring seating inside the adaptor. This requires opening the inlet/outlet adapter. Please contact our customer service.

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2002/96/EC) were implemented in the law related to electrical and electronic equipment and appliances.

All Wiltec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company Wiltec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Materials' recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities or the store where you purchased the article.

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